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SOURCE

Byulleten' Stroitel'noy Tekhniki, No 20, 1952.

PIPE-PROCESSING MACHINE TOOLS

Summary: The following report contains information on machine tools used most prevalently in the USSR at the present time for cutting, threading, and bending pipes to be used in conducting heat, gas, and water.

Models 872 and 9122

/Specifications and photographs of these two models are available in FDD Translation No 308, Soviet Catalog of Metal-Cutting Machine Tools, Part Three, 12 July 1951_/

The outstanding feature of Model 9122 is that it will cut pipe without leaving any burrs.

Models 8715 and NS-1B Hack Saving Machines

	Model 8715	Model NS-1B
Maximum diameter of pipe that can be cut at a 90 degree angle	Up to 150 mm	Up to 150 mm
Number of double strokes of saw frame per minute	64-96-120	72-120-154
Power of electric motor	1.3 kw	1.0 kw
Dimensions (1 x w x h)	1,380 x 1,000 x 750 mm	600 x 1,000 x 1,000 mm
Weight	es es	320 kg

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Model 9-246A

This pipe-cutting machine is produced by the Moscow Construction-Tools Plant imeni M. I. Kalinin. It can also cut bar stock 25 to 35 millimeters in diameter

Diameter of pipe that can be cut

½-4 in .

Speed of head

109; 218 rpm

Number of speeds of cutoff head

Maximum travel of cutters

60 mm

Number of cutters

2

Power of electric motor

2.8 kw

Speed of electric motor

1,420 rpm

Dimensions (1 x w x h)

1,400 x 815 x 1,330 mm

Weight

800 kg

Model TS-102

This pipe cutoff machine is produced by the Tsentroenergomontazh Trust. It has a built-in motor.

Diameter of pipe that can be cut

12-4 in

Maximum travel of cutters

25 mm

Number of cutters

1-2

Power of electric motor

1.5 kw

Speed of cutting pipe with walls 5 mm

thick

51 seconds

Dimensions (1 x w x h)

680 x 450 x 1,000 mm

Weight

277 kg

Model VM9-31

This roller-type cutoff machine is produced by the Santekhoborudovaniye Plant of Glavsantekhprommontazh Main Administration of the Sanitary Engineering and Installation Industry? Ministry of Construction of Machine-Building Enterprises.
It is exceptional for its high productivity. Pipes are cut by means of a rotating roller. Steel or cast-iron pipes can be cut on it.

Diameter of pipe that can be cut

}-5 in

Spindle speed

192 rpm

Peripheral speed of cutting disk /sic;

roller?7

1.7 m/sec

Power of electric motor

1.8 kw

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Speed of electric motor

960 rpm

Speed of cutting pipe 75 mm in diameter

About 15 seconds

Dimensions (1 x w x h)

1,120 x 710 x 1,670 mm

Weight

600 kg

Cutoff Machine With Abrasive Disk

This machine tool, designed by the Soyuzteplostroy, has a pendulum saw, the cutting element of which is a corundum disk 3-4 millimeters thick and 350-440 millimeters in diameter. The outstanding features of this machine tool are its noiseless operation, finish of cut, and high productivity.

Diameter of pipe that can be cut

ੈ=5 in

Disk speed

2,300 rpm

Peripheral speed of cutting roller _sic; disk?

48 ш/вес

Power of electric motor

1.5 kv

Speed of electric motor

1,500 rpm

Dimensions (1 x w x h)

1,200 x 500 x 1,300 mm

Weight

140 kg

Model AMS-32

This is an anode-mechanical cutting machine. Cutting on this type of machine as compared with cutting on ordinary machine tools increases labor productivity by 55 percent, decreases waste 60 percent, and decreases the cost of cutting 80

Diameter of pipe that can be cut

4 in

Peripheral speed of cutting roller

_Bic; disk?/

17 m/sec

Power of electric motor

2.2 kw

Speed of electric motor

950 rpm

Dimensions (1 x w x h)

1,310 x 760 x 1,376 mm

Weight

700 kg

Model 8-225

In addition to threading pipes $\frac{1}{2}$ to $2\frac{1}{2}$ inches in diameter, this machine tool can also cut inch threads ($\frac{1}{2}$ to $1\frac{1}{4}$ inch) and metric threads (12-76 willimeters)

Models S-240, S-289, and 10-10

Models S-240 and S-288 pipe-bending machines are produced by the Plant imeni M. I. Kalinin and Model 10-10 by the Odessa Plant imeni XVI Parts'yezd.

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Model STD-T2

This pipe-bending machine is produced by a plant of Glavsantekhmentazh (Main Administration of Sanitary Engineering and Installation Work), Ministry of Construc-Administration of Sanitary Engineering and Installation work, Ministry of Constitution of Heavy Industry Enterprises. It is intended for bending pipes with the use of a mandrel, without filling the pipe with sand. The mandrels are interchangeable attachments which keep the pipes from flattening during the bending operation. Bending rollers are also interchangeable.

Model TO-38-108

This pipe-bending machine is produced by the Kiev Electrical Machinery Plant of the Ministry of Electric Power Stations. This machine can also bend pipes with-

Maksimum Machine

This is a pipe-bending machine which can be driven by power or by hand.

Model Vol'nov S-119

This is a pipe-bending machine which is operated by hand only and is intended for bending pipes of small diameter.

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